

# FIG. 1

## VARIOUS TYPES OF SIGNAL TRANSFER

- SDH, PDH
- ETHERNET
- ATM
- IP PACKET
- MPLS PACKET
- PPP PACKET

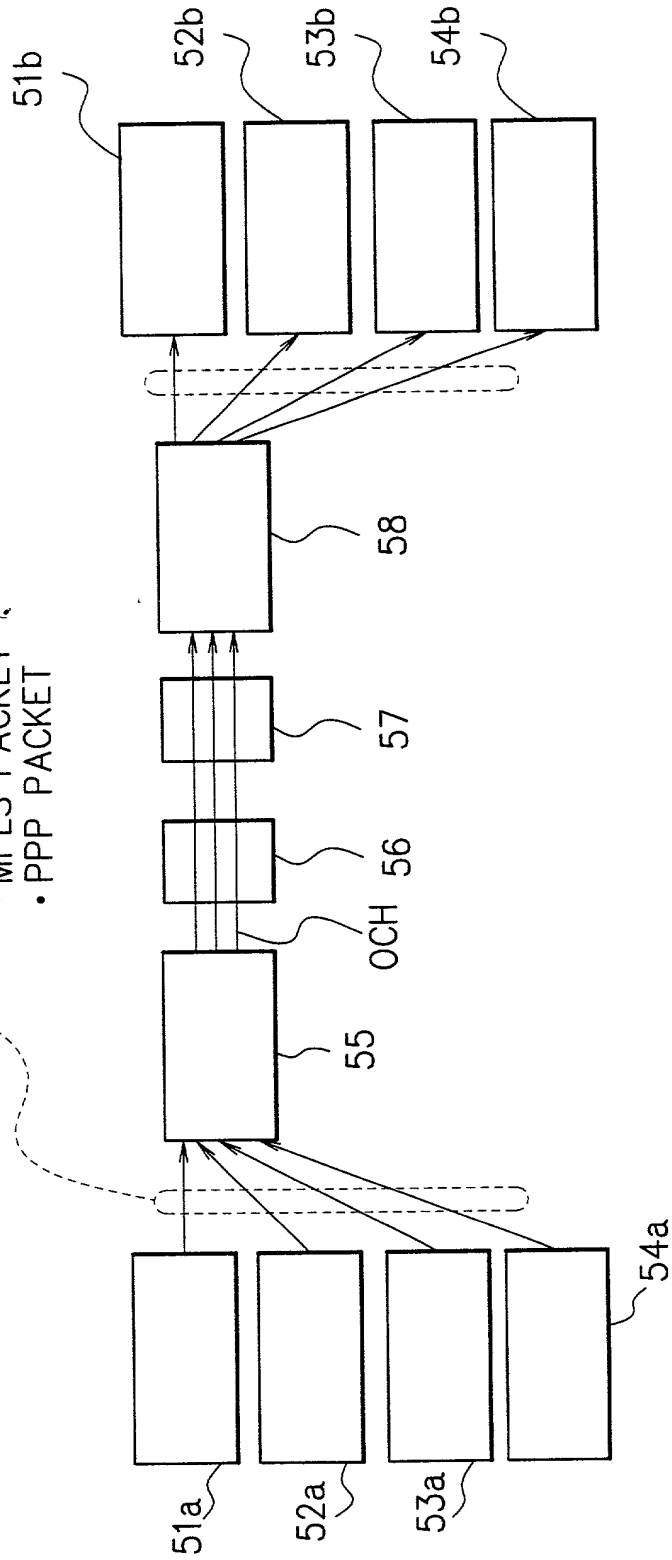
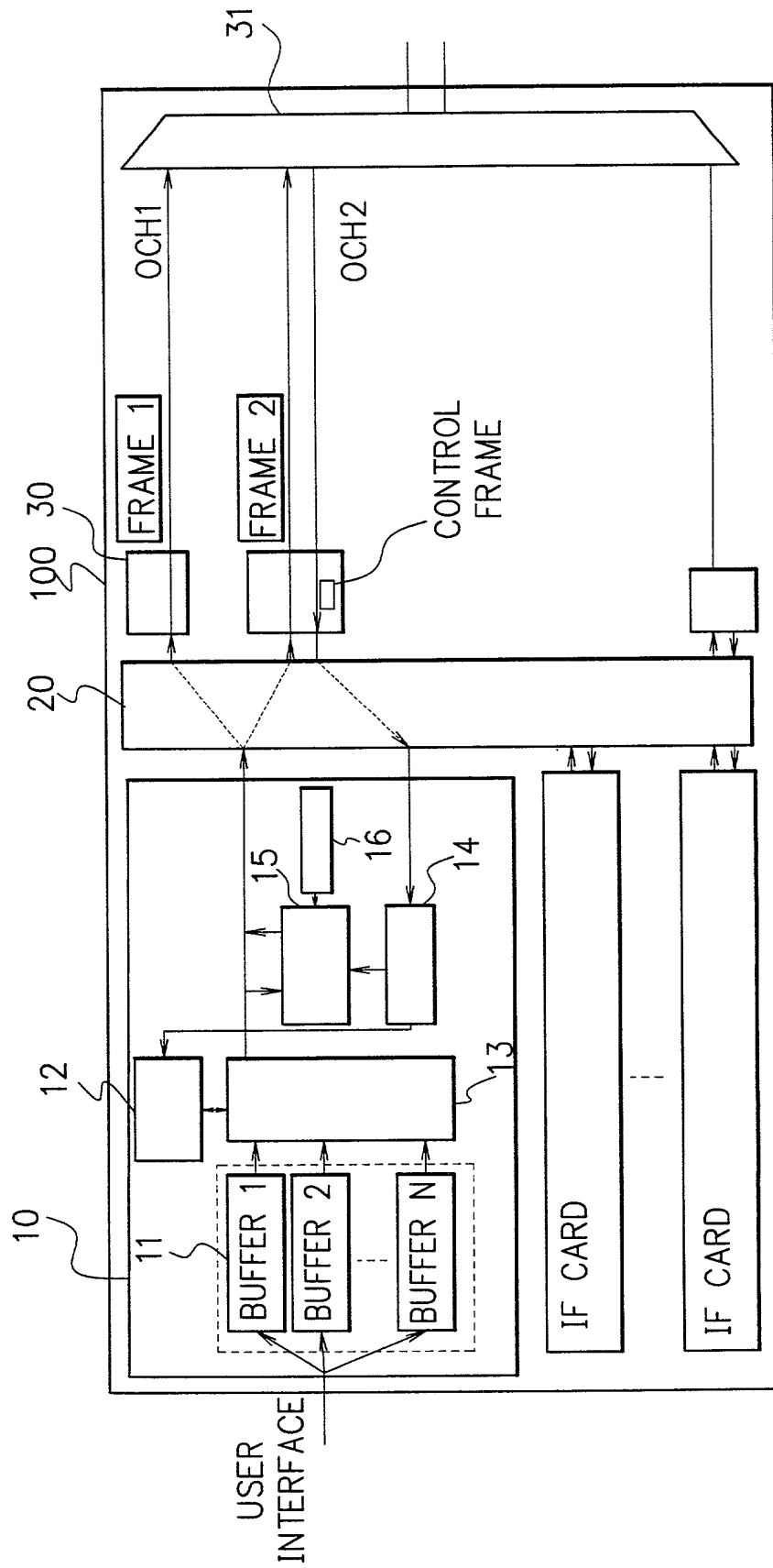
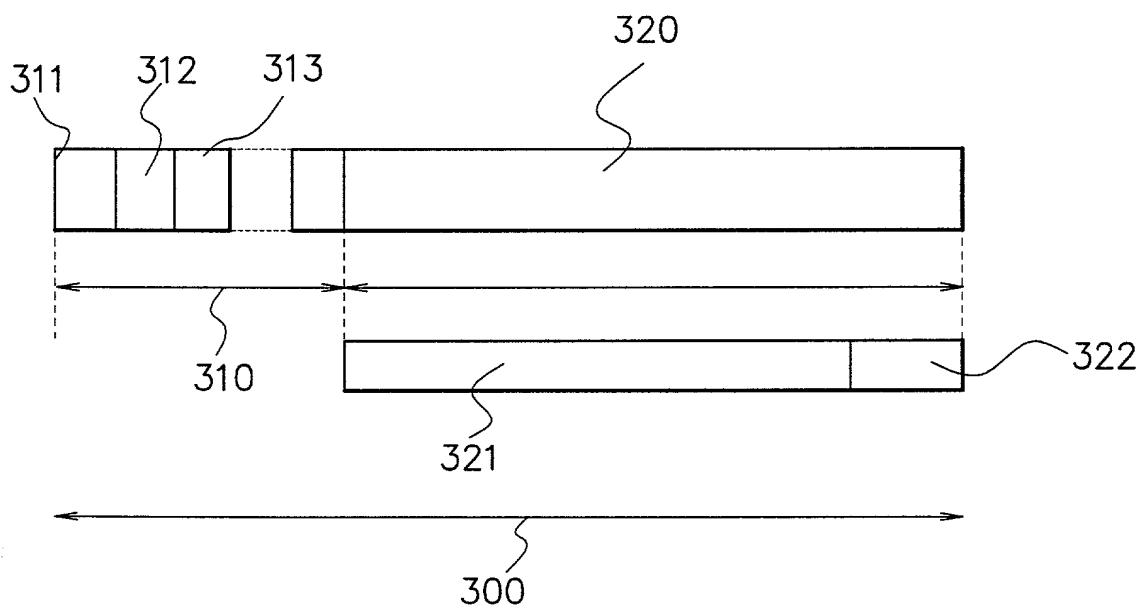


FIG. 2





F I G. 4



F I G. 5

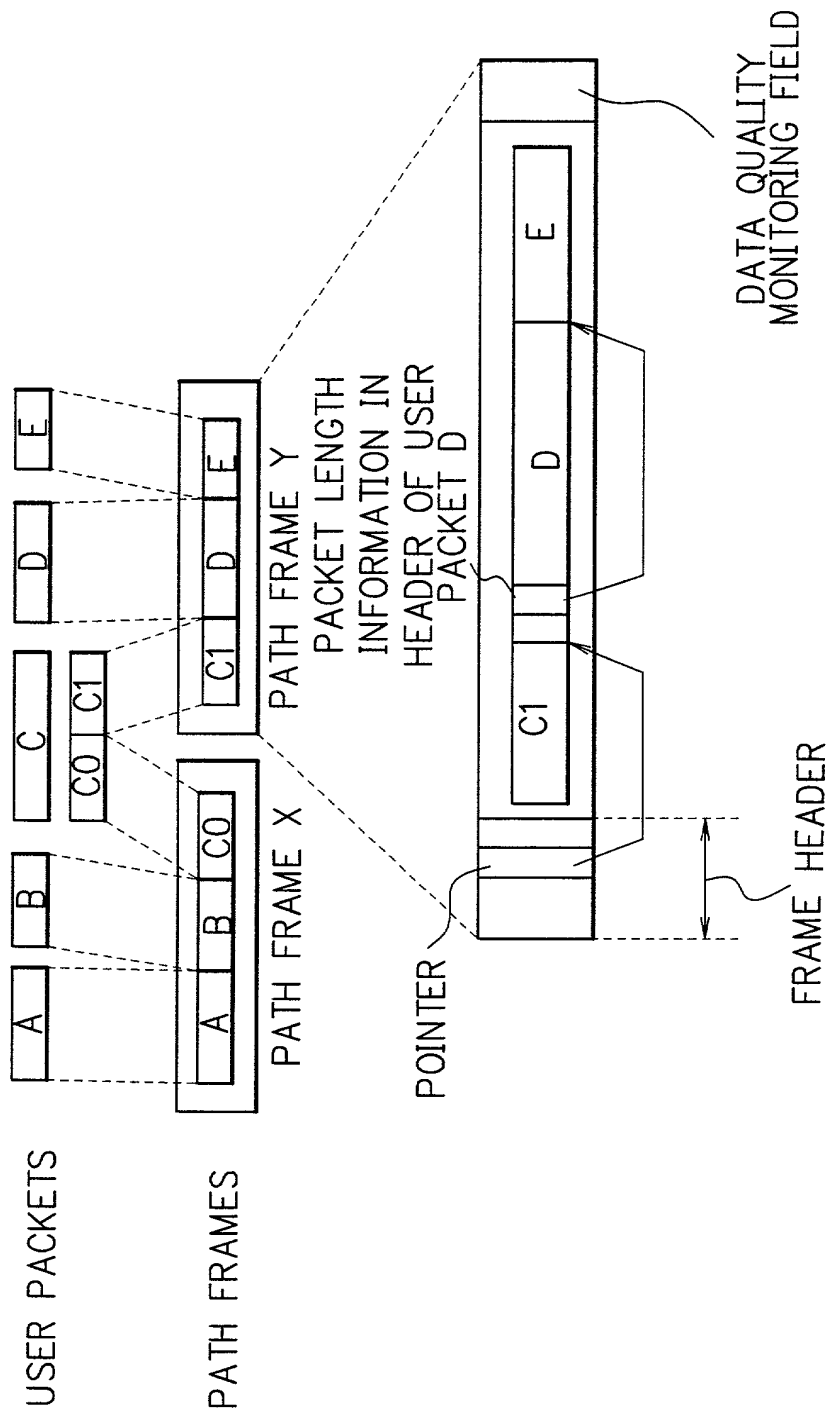


FIG. 6

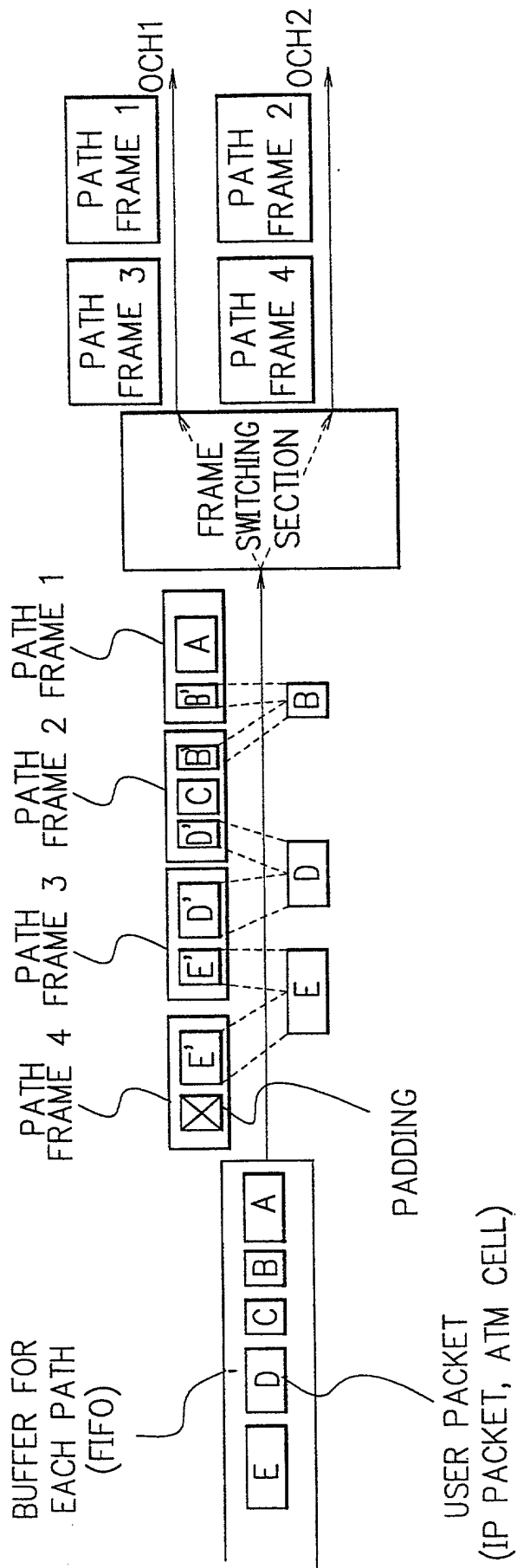


FIG. 7

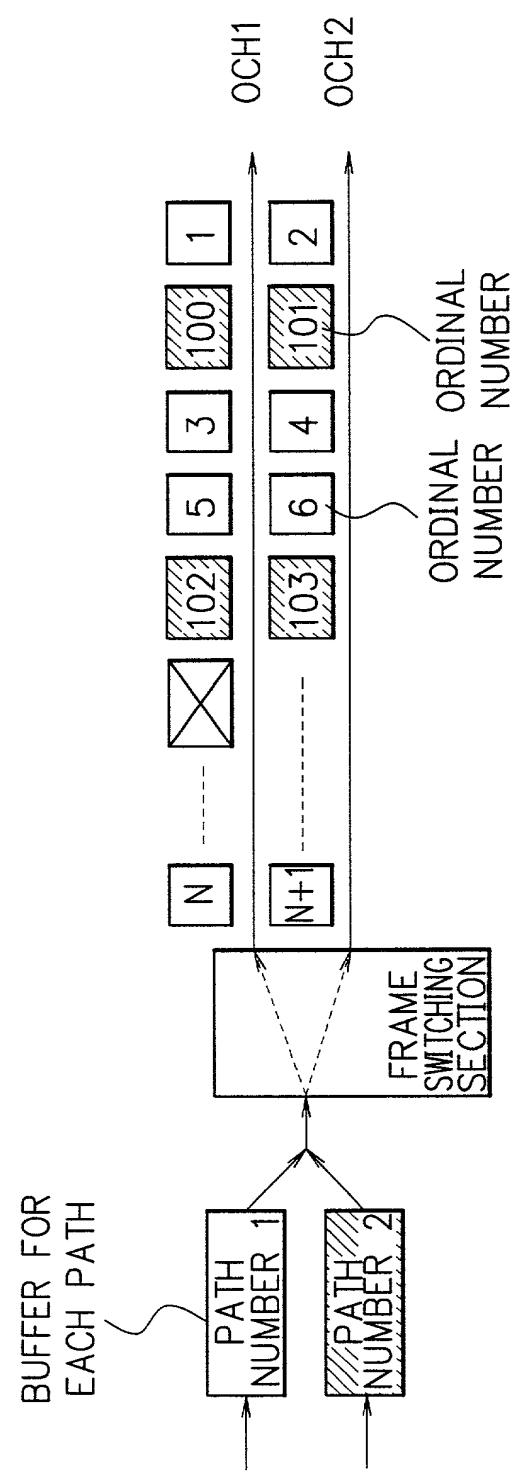


FIG. 8

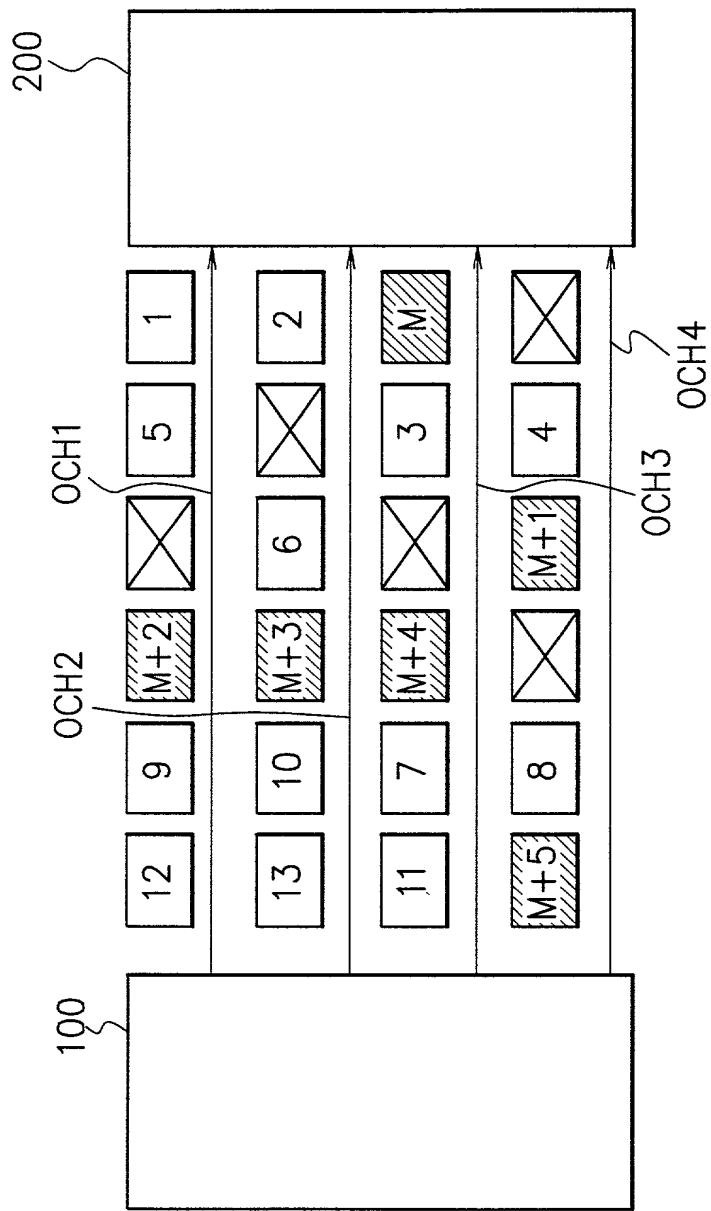




FIG. 9

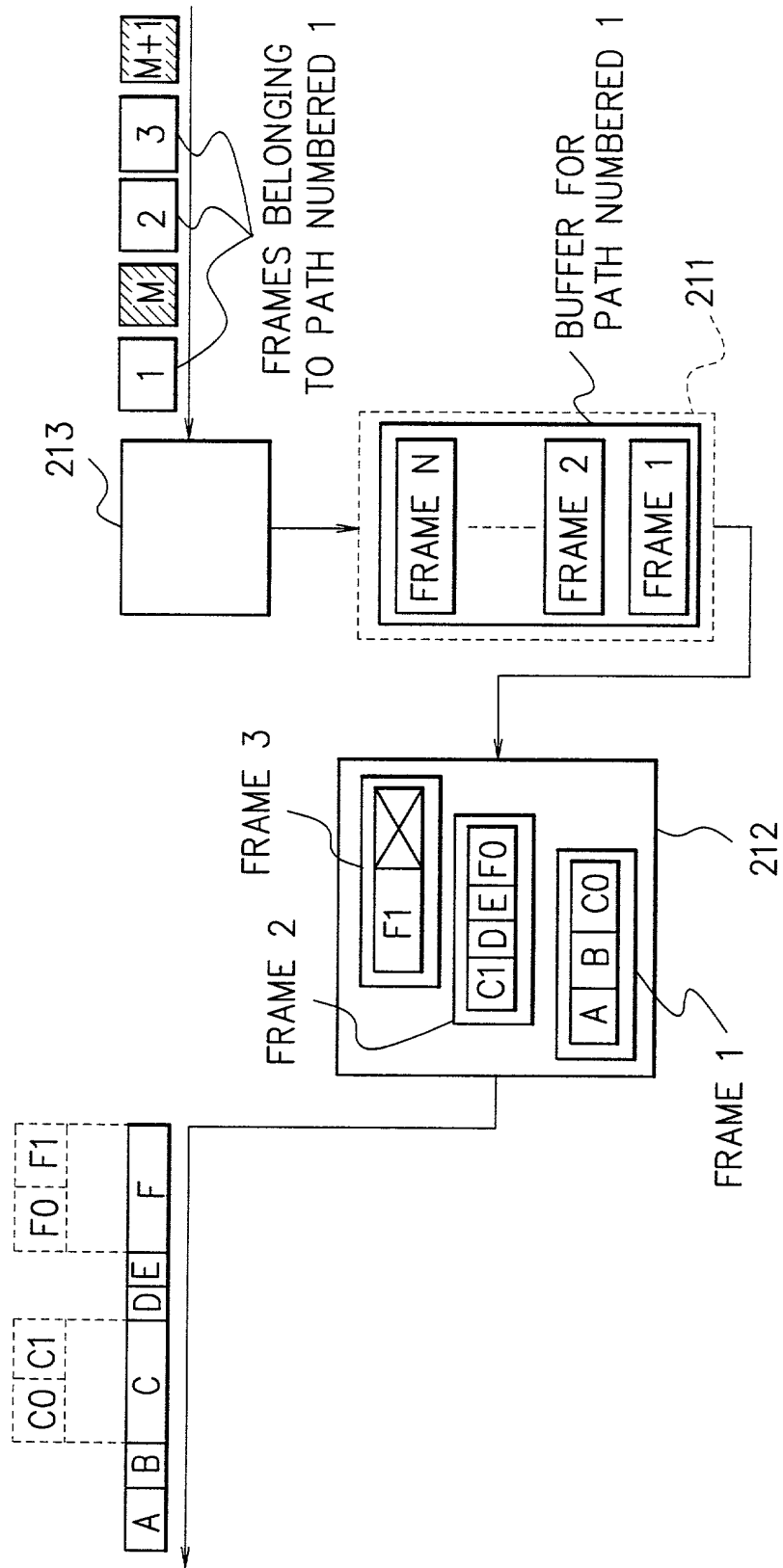


FIG. 10

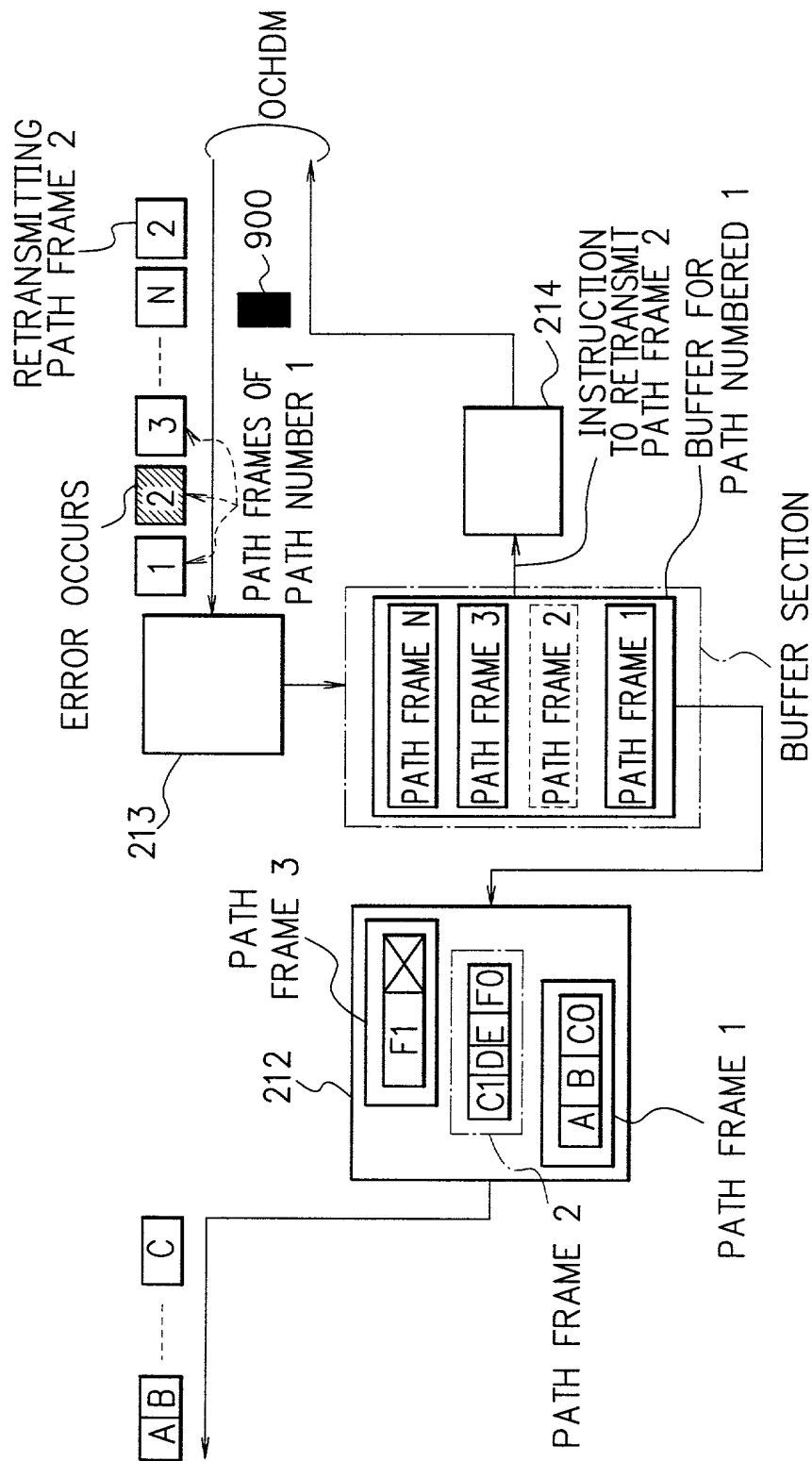
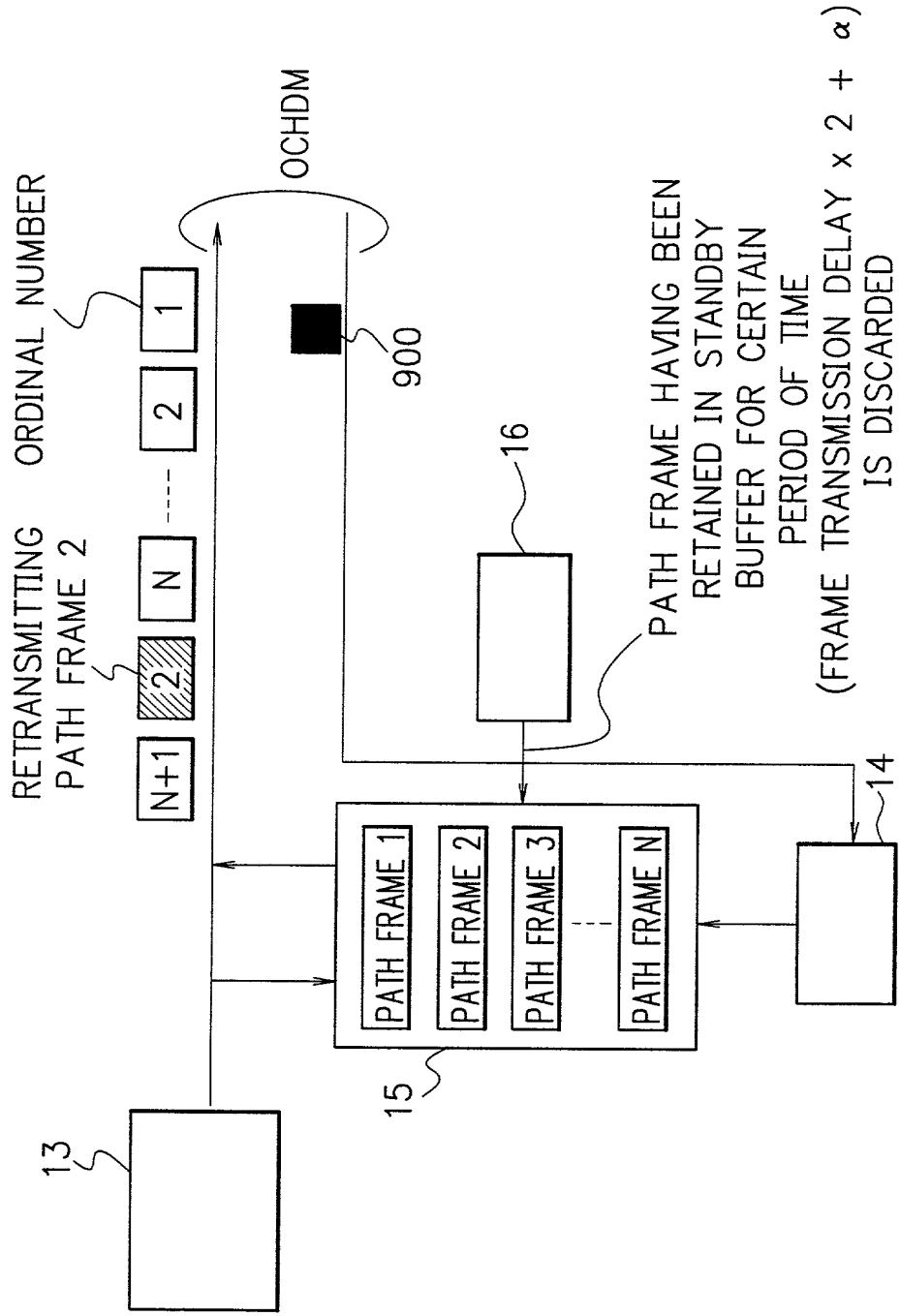


FIG. 11



# FIG. 12

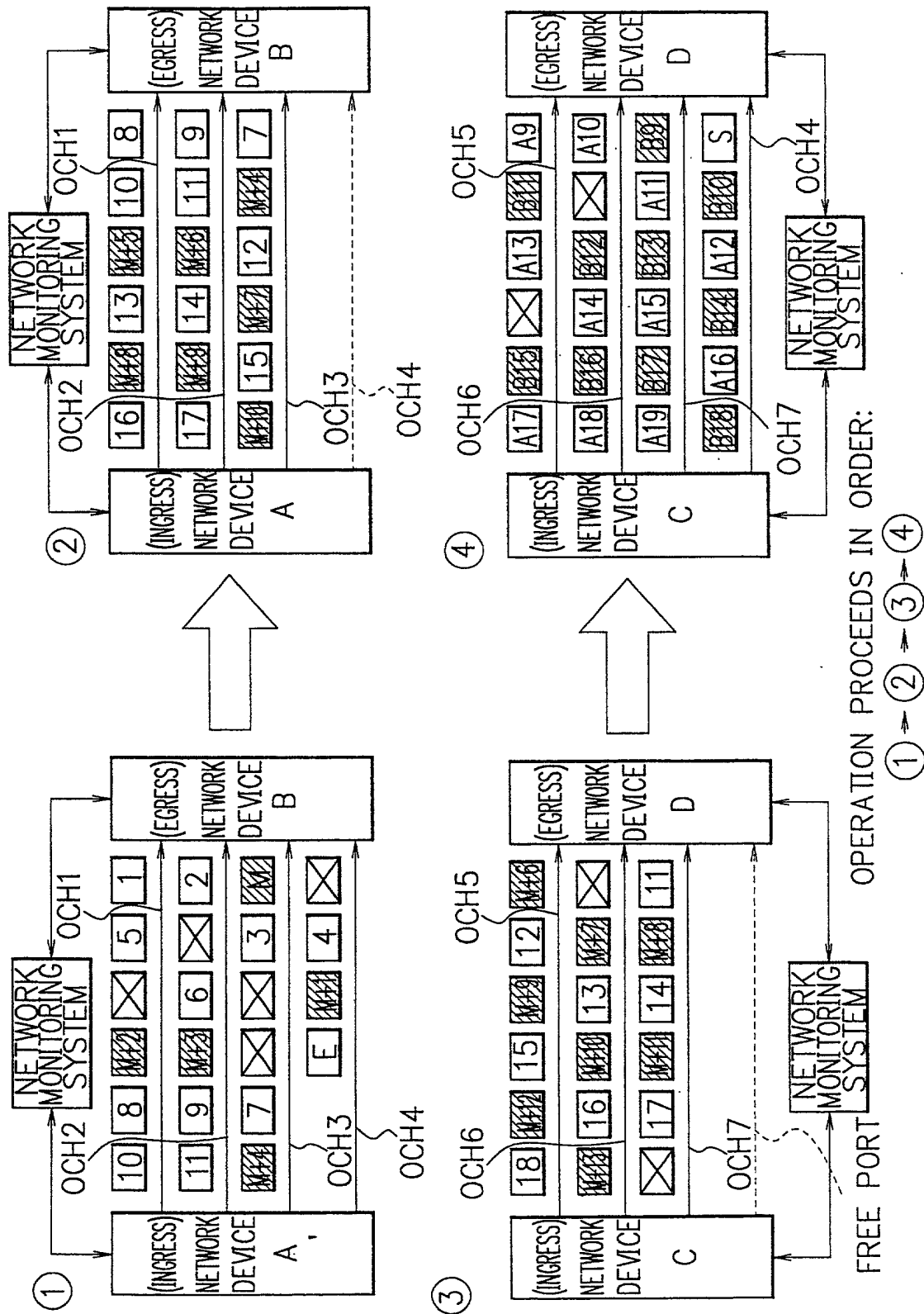


FIG. 13

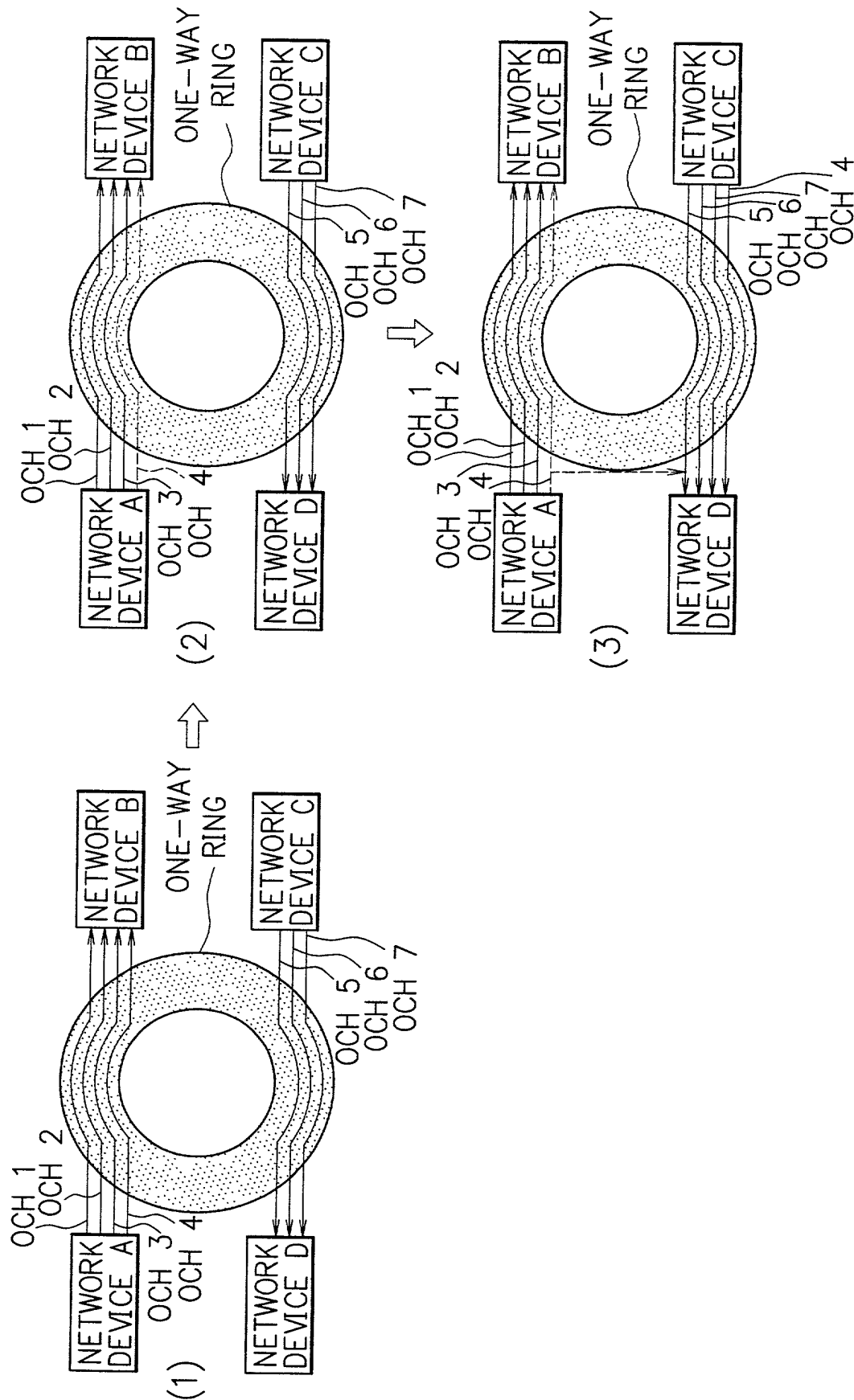
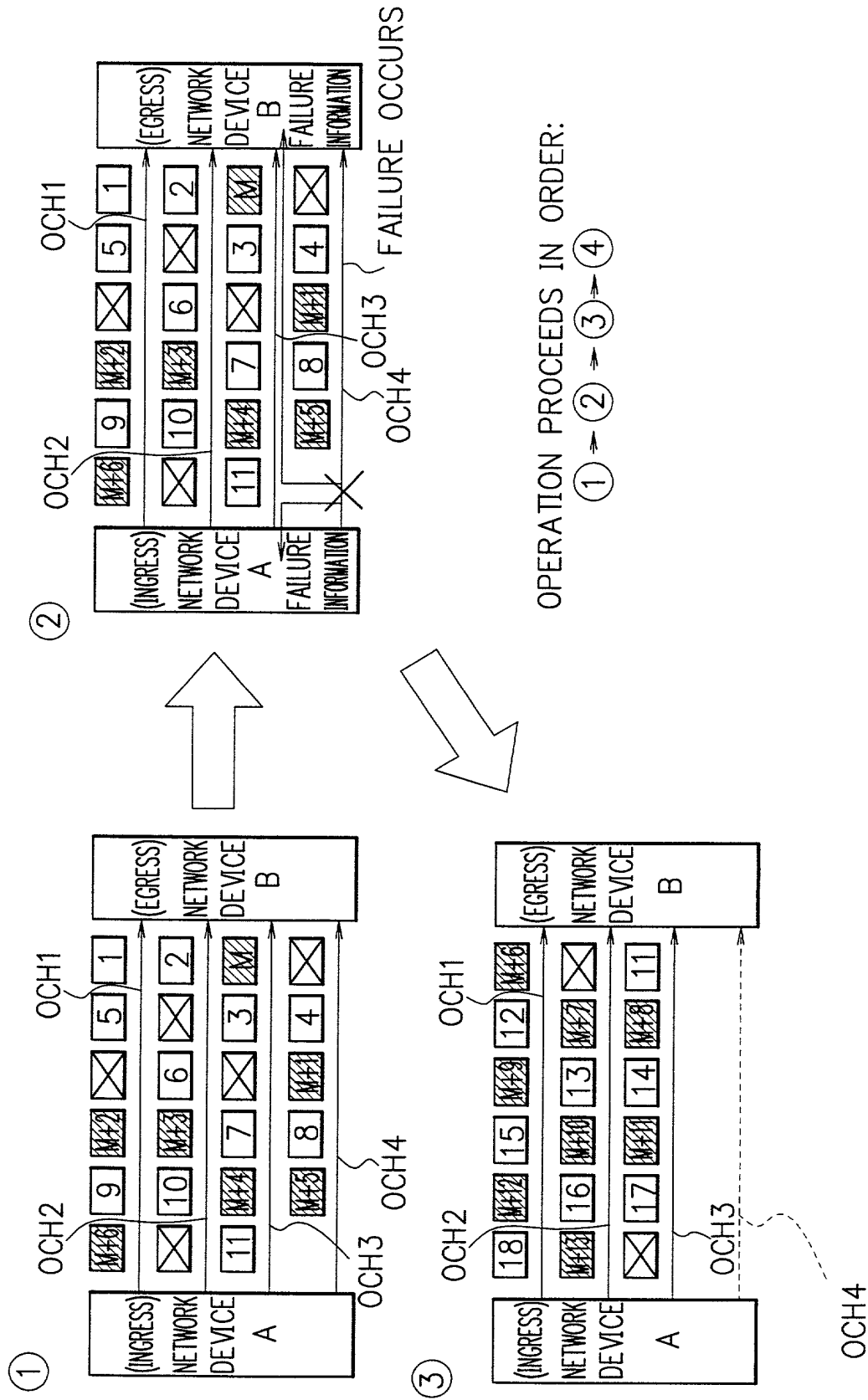


FIG. 14



# F I G. 15

## PARAMETER LIST

REQUIRED DELAY TIME= $T$

REQUIRED BAND= $V$

VELOCITY OF OCH= $R$

TRANSFER TIME ON OCH= $\tau$

CONTENTS OF DELAY AT POINTS ①-⑤

①=PATH FRAME LENGTH $\div V$

②=PATH FRAME LENGTH $\div R$

③= $\tau$

④=PATH FRAME LENGTH $\div R$

⑤=PATH FRAME LENGTH $\div V$

NECESSARY CONDITION

$T > ① + ② + ③ + ④ + ⑤$ :

$T > \tau + 2 \times \text{PATH FRAME LENGTH} \times (1/V + 1/R)$

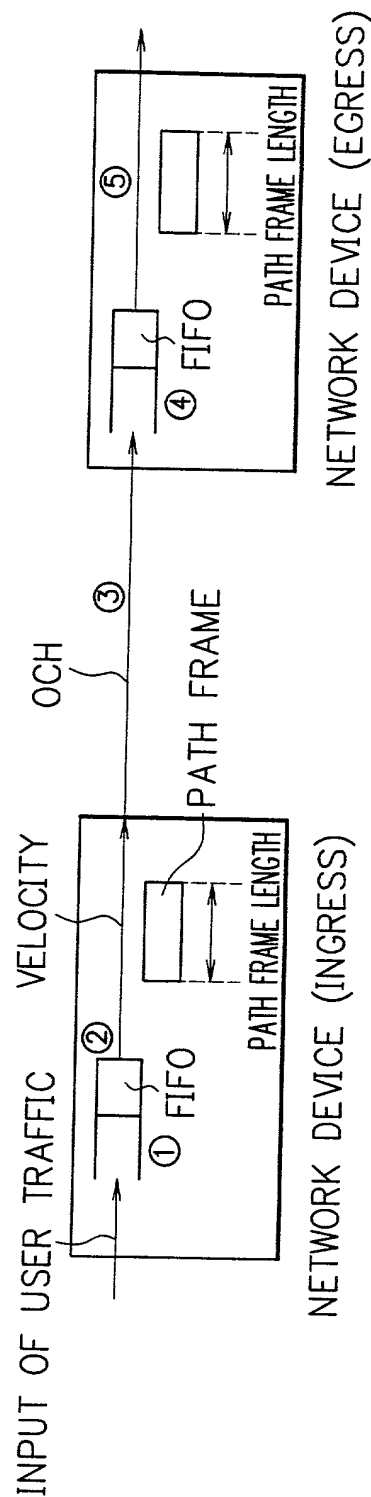


FIG. 16

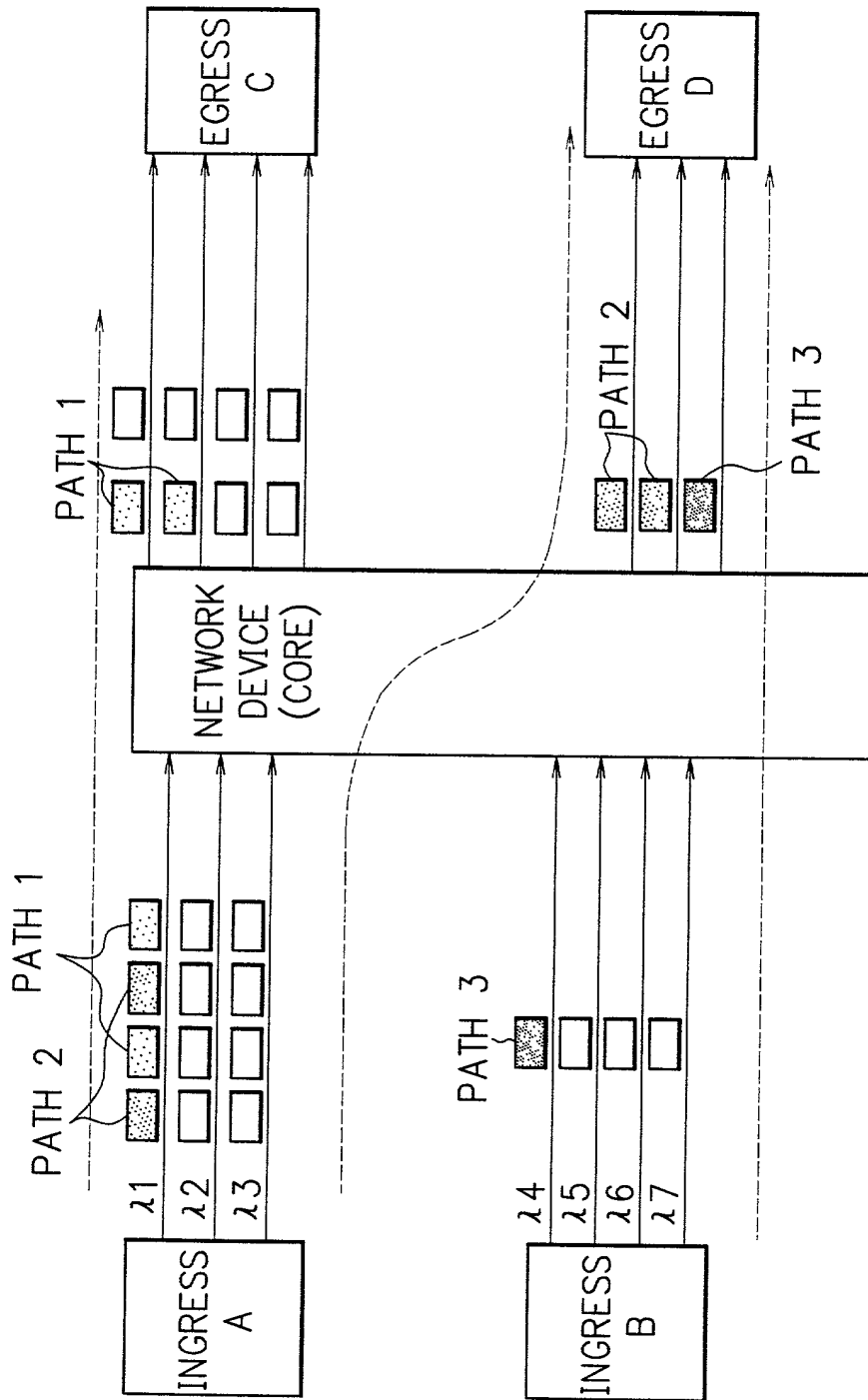




FIG. 17

